BRUHAT BANGALORE MAHANAGARA PALIKE, BYATARAYAPURA ZONE

Executive Engineeer, Project Division, B.B.M.P., Bangalore - 92

APPROVED SCHEDULE - B

Name of Work: Improvements to roads and drains at balance portion of chokkanahalli road connecting Thanisandra main road to Sampigehalli in ward no.05, Byatarayanapura sub division

Name of the Firm				Approved Teneder Rates of G N RAMESH	
Sl. No.	App Qty	Description	Unit	Rate in figures	Rate in words
1	94.40	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 with all lead and lift and directions of the Engineer in charge of the work	Cum	190.80	Rupees one hundred and ninty and eighty paise only
2	1.25	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. with all lead and lift and directions of the Engineer in charge of the work	Cum	5203.00	Rupees Five thousand Two hundred and three only
3	10.00	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No. 1000 / 2300 with all lead and lift and directions of the Engineer in charge of the work 600mm dia pipe	Rmtr	4058.68	Rupees four thousand Fifty eight and Sixty eight paise only
4	1.37	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. with all lead and lift and directions of the Engineer in charge of the work	Cum	4099.00	Rupees Four thousand ninty nine only.

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S.	App Qty	Description	Unit	Rate in figures	Rate in words
5	7.20	Providing ruled pointing of coursed stone masonry with Cement mortar 1:3 20mm deep, after raking joints to depth of 20mm necely lining, including cost of materials, abour, HOm of machineries curing etc., complete as per specification and directions of the Engineer-in-charge	sqm	106.00	Rupees One hundred and six only
6	0.08	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. with all lead and lift and directions of the Engineer in charge of the work	Cum	5431.04	Rupees Five Thousand four hundred and thirty one and zero four paise only
7	1232.00	KSRRB M400-6.2: Construction of granular sub-base by providing Close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with mortar grader on prepared surface and compacting with vibratory roller to achieve the desired density, complete as per specifications. A Plant Mix methad For Grading II Material with all lead and lift and directions of the Engineer in charge of the work	Cum	1525.50	Rupees One Thousand Two Hundred Fifteen Rupees
8	1470.00	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 with all lead and lift and directions of the Engineer in charge of the work	Cum	1698.22	Rupees one thousand six hundred and ninty eight and twenty two paise only
9	5880.00	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 with all lead and lift and directions of the Engineer in charge of the work	Cum	34.80	Rupees Thirty four and eight paise only

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Name of the Firm				Approved Teneder Rates of G N RAMESH	
o.	App Qty	Description	Unit	Rate in figures	Rate in words
10	11760.00	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 with all lead and lift and directions of the Engineer in charge of the work	Sqm	15.84	Rupees Fifteen and eighty four paise only
11	294.00	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 with all lead and lift and directions of the Engineer in charge of the work	Cum	6140.00	RupeesSix thousand one hundred and fourty only
12	235.20	KSRRB M500-19. Providing and laying bituminous concrete 40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 with all lead and lift and directions of the Engineer in charge of the work	Cum	9735.00	Rupees Nine thousand seven hundred and thirty five only
13	210.00	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803. with all lead and lift and directions of the Engineer in charge of the work	Sqm	520.88	Rupees Five hundred and twenty and eighty eight only

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Name of the Firm				Approved Teneder Rates of G N RAMESH	
.o.	App Qty	Description	Unit	Rate in figures	Rate in words
14	300.00	Providing and fixing of Reflective Raised Pavement marker (RPM's) / Cat eyes / Road studs confirming to ASTM D4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of polycarbonate mould, with a height of 20mm, size of 130mm x 105mm and reflecting area of 13sqm with the slope of retro reflective surface within the limit of 35 + 5 degree to the base on either side. The marker shape II display an initial minimum luminous intensity of 279mcd/ lux at an entrance angle of zero degree and observation angle of 0.2 degree. The corresponding values for 20 degree entrance and 0.2 degree observation angle shall be 112 mcd / lux with color multiplying factor on either cases for white, yellow and red markers being 1.0, 0.6 and 0.25 respectively. The RPM's should be fixed by using two numbers of polymer shanks using appropriate adhesive as recommended and certified by the RPM manufacturer. The raised pavement marker should support a sufficient minimum load 13635 Kg in accordance with ministry specification with all lead and lift and directions of the Engineer in charge of the work	No	377.44	Rupees Three hundred and seventy seven and forty four only.

Signature of the Contractor

Executive Engineer 20/6/1
Project Division
Byatarayanapura Zone
BBMP, Bangalore-92.

Contractor

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